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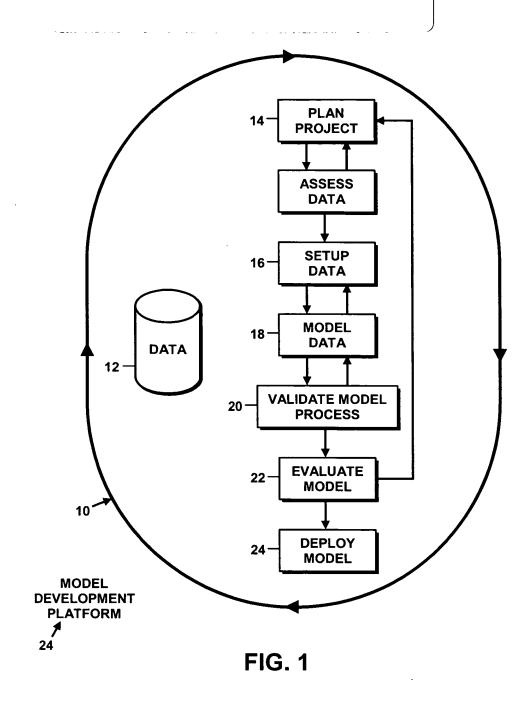
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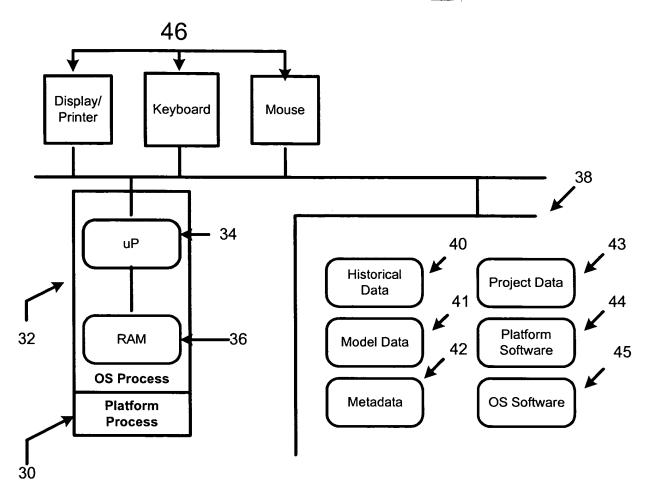


FIGURE 2

Data Type Unique Number indexing Model Projects Unique Number Indexing receive Projects
Reference Name for Model Project
Type of Model to be constructed (Response, Clone, Suppression,)
Analyst-defined goal for current Model Project
Identifying Time Stamp for first use
Lest used Time Stamp for Purillage and Albertet

Lest used Time Stamp on Purillage and Albertet ProjectType ProjectGoal - 50 Text ProjectBeginDate -58 bc ProjectEndDate ProjectDataset Text Text Text Text Full pathname reference to Development dataset Full pethneme reference to Development detaest.
Full pethneme reference to metadata end Model status and data.
Full pethneme reference to log of Analyst decisions.
Terget variable selected for Model.
Desired c-indick for Model set by Analyst.
Desired zone of positive Model Gain set by Client.
Desired lovel of Monotonicity.
Total number of records in Development Dataset. ProjectDataDictionary ProjectLog Numbe ModelPritnessCriterion
ModelProformanceCriterion
ModelProformanceMonotonictyCriterion
DevelopmentDatasetSize
PositiveOutcomes(%)
SempleSize(%) Number Number Number Number of successful outcomes as a percent of Development Dataset Size
Size of Training Sample as a percent of total Development Dataset Size used for Candidate Model
Initial Number of Predictor Variables Number Number **VariableCount** Number Hyperlink Hyperlink Hyperlink Distribution of Predictor Variables: Graphs and Statistics Distribution of Predictor Variables for Positive and Negative Outcomes Cross-validated Partition Tree for Key Predictor Variables SampleDistribution
SampleByDistribution Interaction Tree DimensionReductionMissingFilter Number of Predictor Variables Eliminated for Missing Variables Number Number of Predictor Variables Eliminated for Missing Variables Cutoff set by Analyst for Percent of Missing Values Acceptable Number of Predictor Variables Retained for Main Effects Cutoff set by Analyst for Significance of Main Effects Number of Predictor Variables Retained for Interaction Effects Cutoff set by Analyst for Significance of Interaction Effects Number of Predictor Variables resulting from Dimension Reduction Model Type applied to Dimension Reduced Dataset Retention Cutoff or Significance Level for Model Variables Model Ethio Results Number DimensionReductionCutoff IntersionReductionRuleEffects
DimensionReductionMainEffects
DimensionReductionInteractionEffects
DimensionReductionInteractionEffects
DimensionReductionInteractionEffectsCutoff Number Number Number DimensionReductionVariableCount Number CandidateModelChoice CandidateModelChoiceCo Number Hyperlink Hyperlink Hyperlink Model Fitting Results Model Non-cumulative Lift Chart Model Persistence Chart for Key Variables CandidateModelResults CandidateModelLFtChart CandidateModelPersistenceChart ValidationMethod Text Method Selected for Model Development Process Validation Hyperlink Model Application to Validation Dataset(s) Results ValidationMethod) iftChart Hyperlink Hyperlink Model Validation Lift Chart FinalModelResults Model Development Process applied to full Development Detaset Results Final Model applied to Sample and Validation Datasets for Cumulative Lift FinalModelLiftChartComparison Hyperlink Final Model applied to Semple and Vasibation Detasets for Non-cumulative Lift Final Model applied to Semple and Validation Detasets for Non-cumulative Lift Model Peremeterized Equation using Model Transformed Variables Full pethname reference to Scoring File Imput Detaset Key Variable Comperison on Decile Basis Final Model Non Cumulative Lift Chart Comparison FinalModelEquation Text Text Hyperlink ScoringDataset DevelopmentScoringComparison DevelopmentScoringDistributionComparison Hyperlink Propensity Score Distribution for Development and Scoring File (Subset) ScoredResuks InsightProfileMethod Text Text Full pethname reference to Scoring File Output Dateset Method for Ranking Customer Insight Variables InsightProfile InsightProfileChart Hyperlink Hyperlink Ranked List of Key Variables
Insight Chart of Key Variable Differential Contribution FinalReportEntry Final Report Description and Comments

FIGURE 3

50

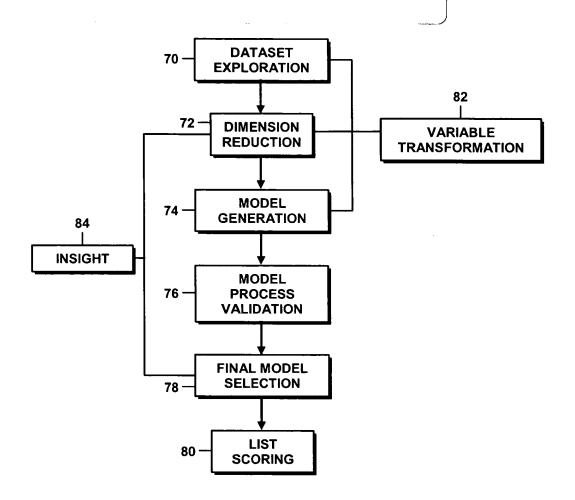


FIG. 4

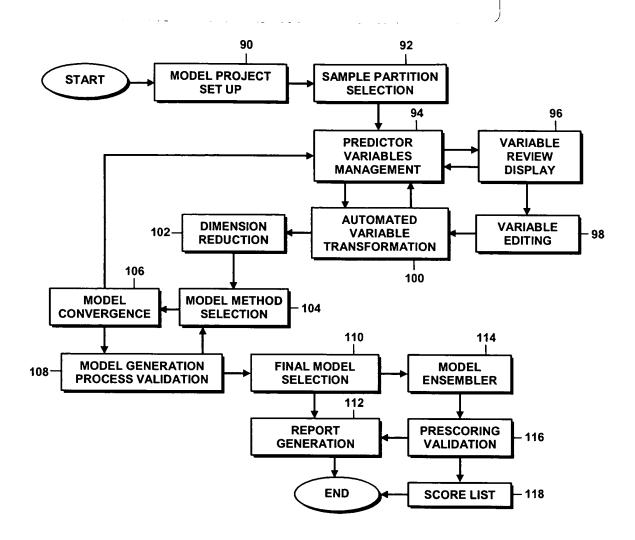


FIG. 5

Matter No.: 17146-003001

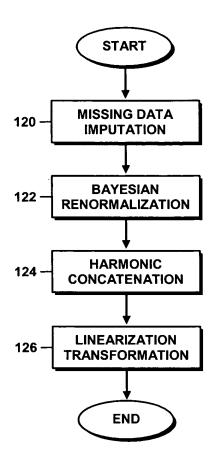


FIG. 6

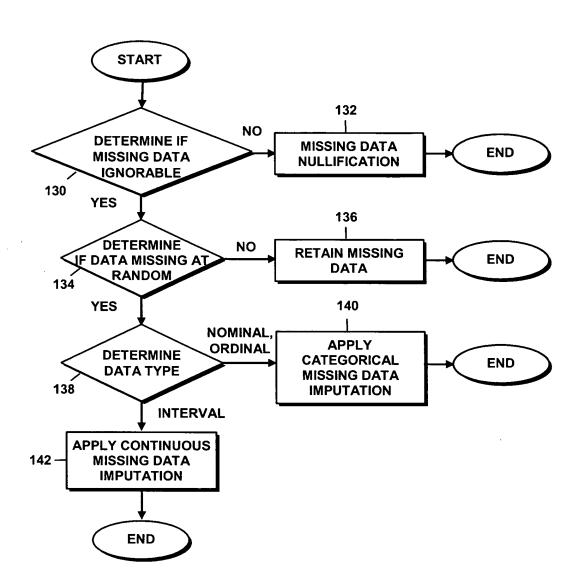


FIG. 7

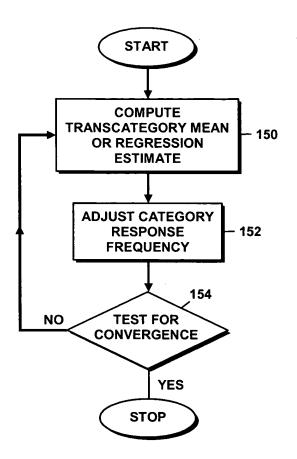


FIG. 8

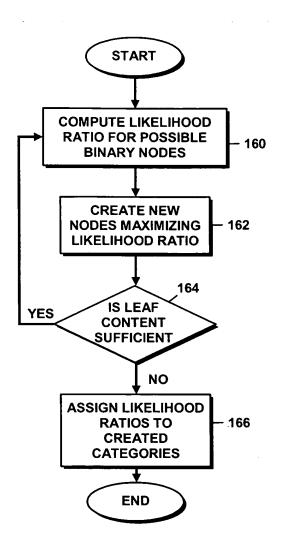


FIG. 9

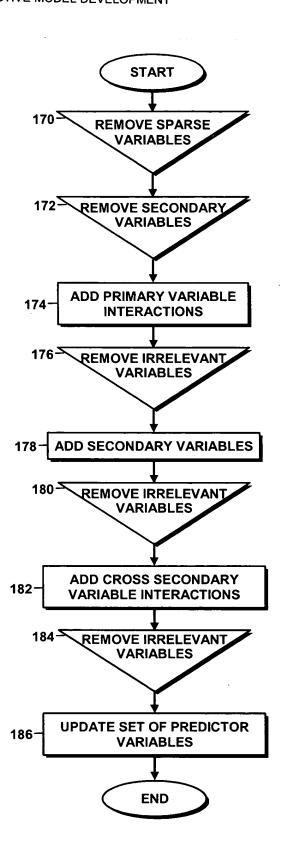


FIG. 10

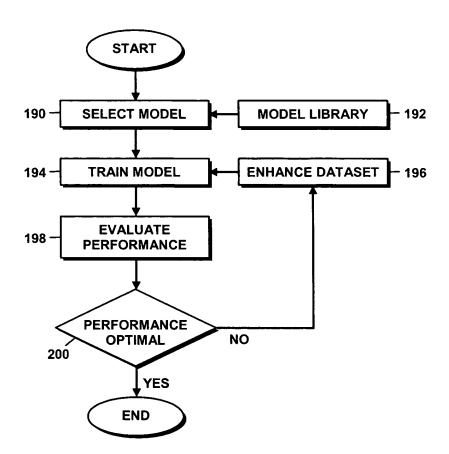


FIG. 11

Applicant(s): Stephen K. Pinto et al.

PREDICTIVE MODEL DEVELOPMENT

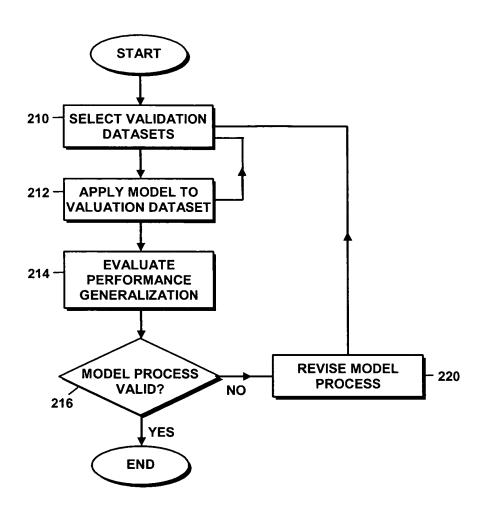


FIG. 12

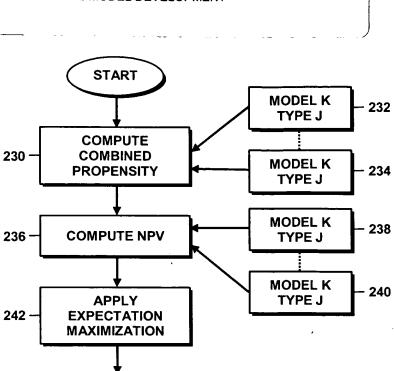


FIG. 13

END

Applicant(s): Stephen K. Pinto et al. PREDICTIVE MODEL DEVELOPMENT

Sec. (1) (4-14-4-4) (1) (2) (1) (2) (2) (2)

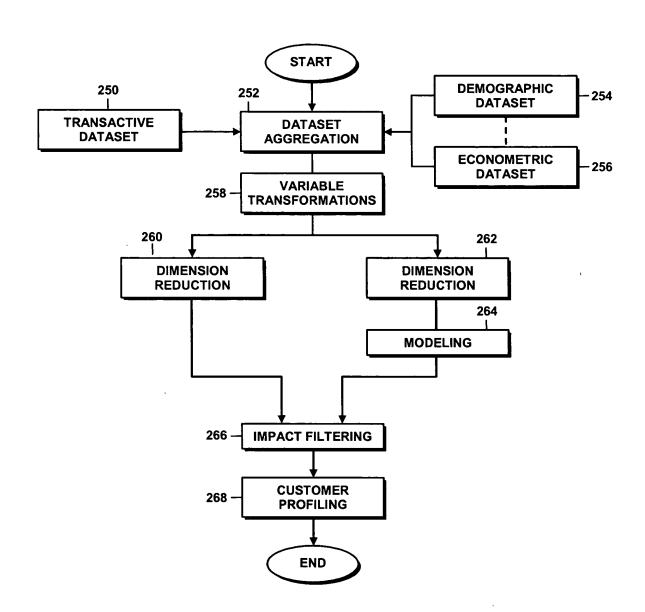


FIG. 14

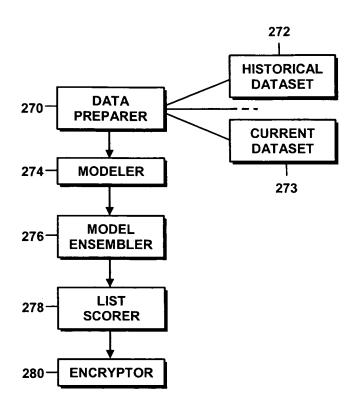
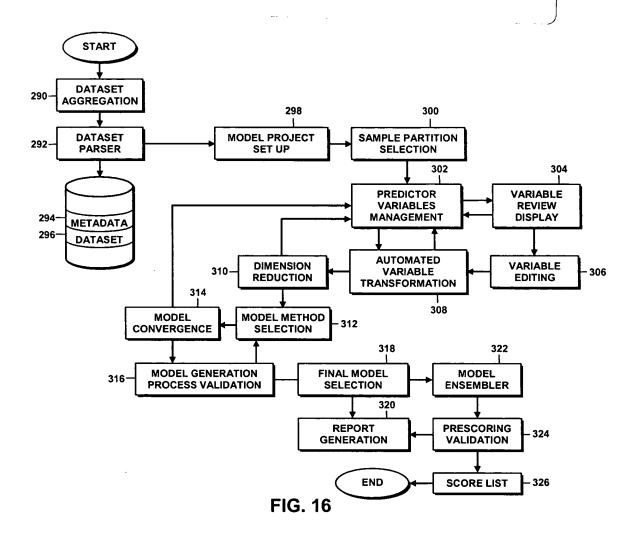


FIG. 15



Matter No.: 17146-003001

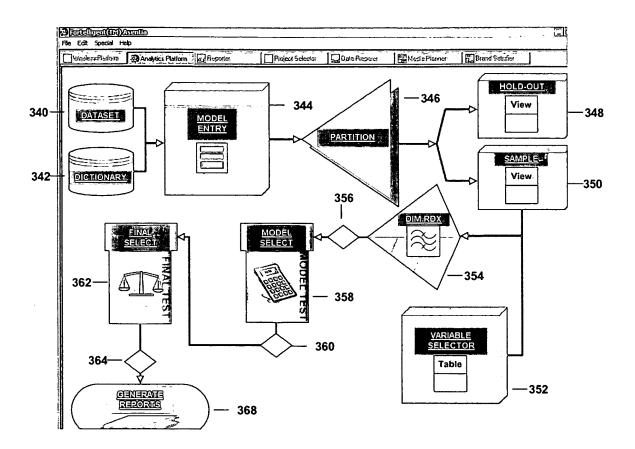


FIG. 17

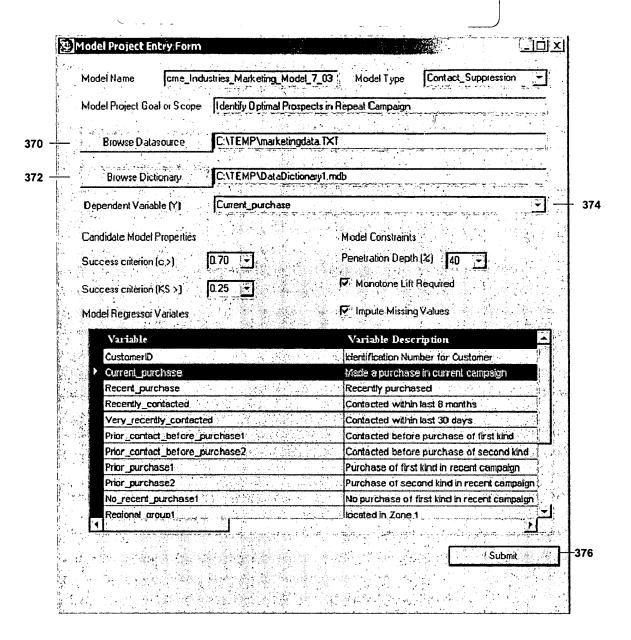


FIG. 18A

	Variable	Variable Type	Variable Description	Variable Definition	Status
۶	CustomedD	N	Identification Number for Customer	CustomerID	XP
	Current_purchase	N	Made a purchase in current campaign	Current_purchase	Р
_	Recent_purchase	N	Recently purchased	Recent_purchase	Р
_	Recently_contacted	N	Contacted within last 8 months	Recently_contacted	Р
	Very_recently_contacted	N	Contacted within last 30 days	Very recently contacted	Р

FIG. 18B

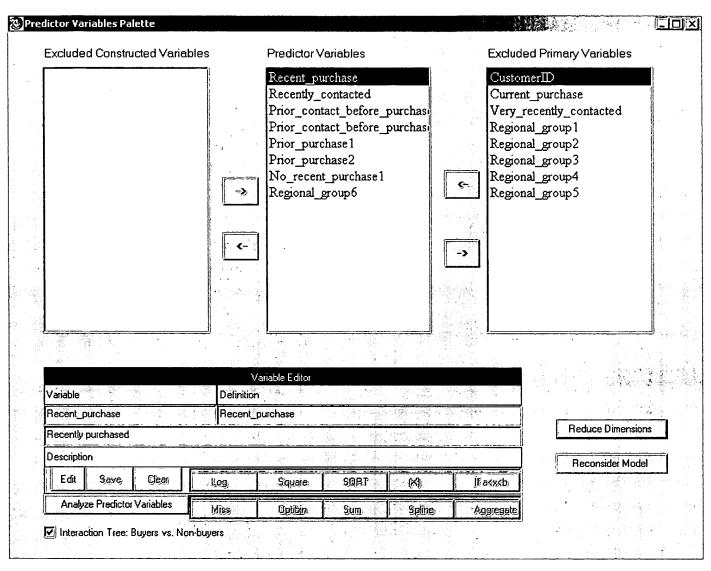


FIG. 19.

	Analyze Predictor Variables	Miss	Optibin	Sum,	Spline	Aggregate			
	Interaction Tree: Buyers vs. No	n-buyers							
	Predictor Variable Differential Freq	uency Distributi	on .						
	Predictor Variable Interaction Tree			. .					
	'&								
Comput	Computing								

FIG. 20A

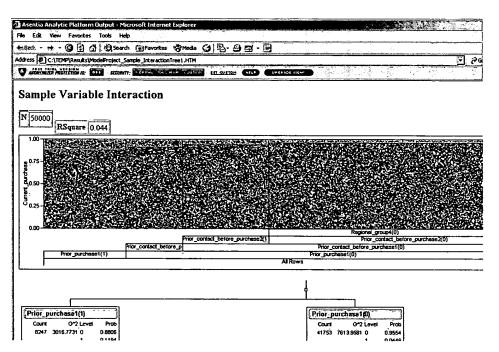


FIG. 20B

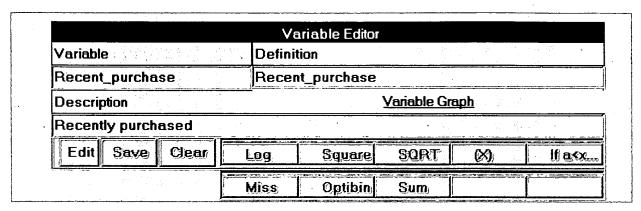


FIG. 21A

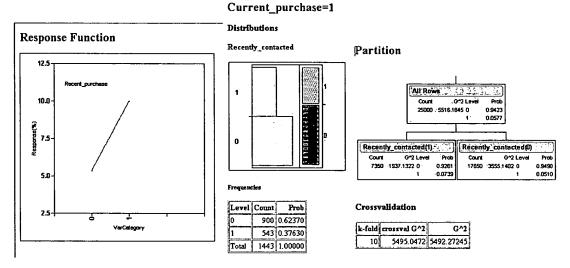


FIG. 21B

	Variable	Editor				
Variable	Definition	Definition				
Prior_purchase1_I	Prior_puro	Prior_purchase1*				
Description						
Purchase of first kind in recent cam	paign					
Edit Save Clear	Log	Square	SQRT	(×)		

FIG. 21C

PREDICTIVE MODEL DEVELOPMENT

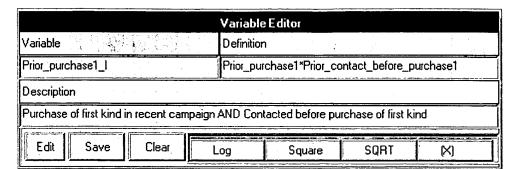


FIG. 21D

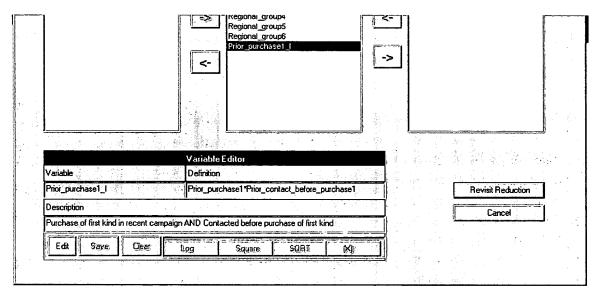


FIG. 21E

Matter No.: 17146-003001

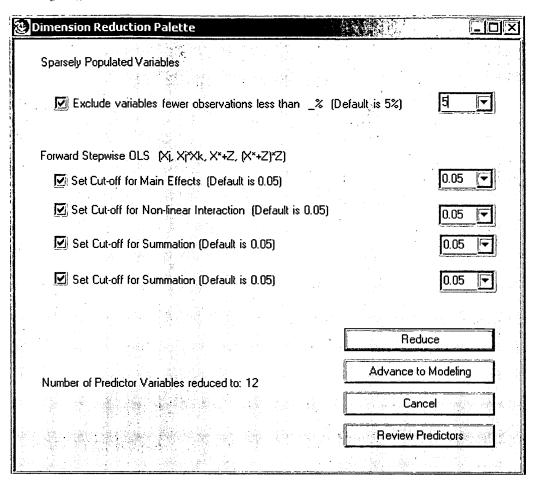


FIG. 22

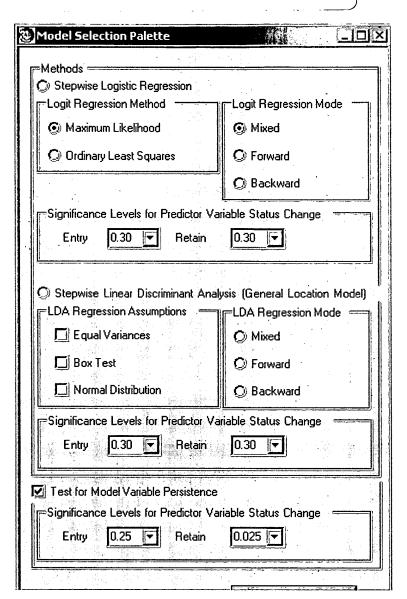


FIG. 23A

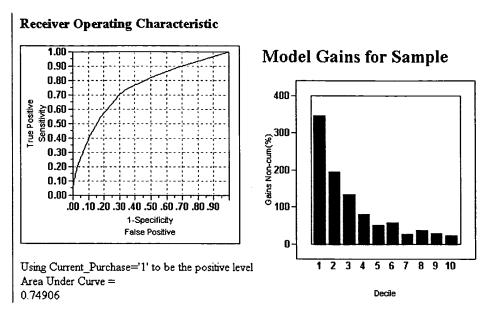


FIG. 23B

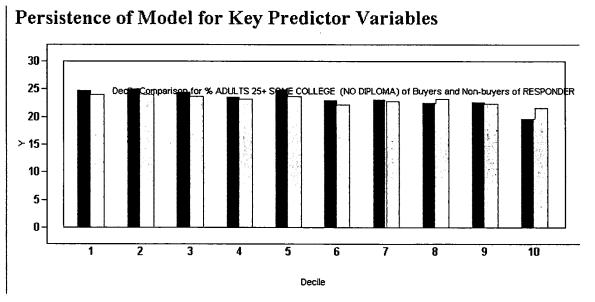


FIG. 23C

Page 26 of 32

MODEL SELECT

VARIABLE SELECTOR

VARIABLE SELECTOR

FIG. 24

Matter No.: 17146-003001

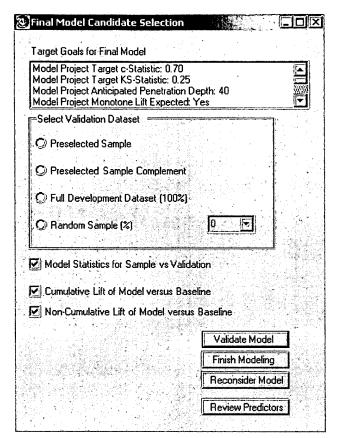
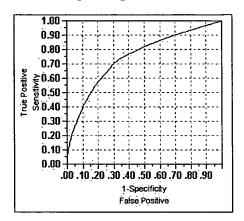


FIG. 25A

Receiver Operating Characteristic



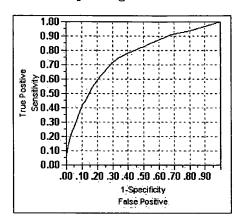
Using Current_Purchase='1' to be the positive level Area Under Curve = 0.74906

FIG. 25B

Matter No.: 17146-003001

Applicant(s): Stephen K. Pinto et al. PREDICTIVE MODEL DEVELOPMENT

Receiver Operating Characteristic



Using Current_Purchase='1' to be the positive level Area Under Curve = 0.75884

FIG. 25C

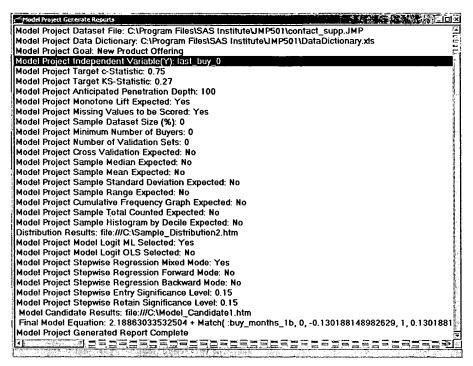


FIG. 26

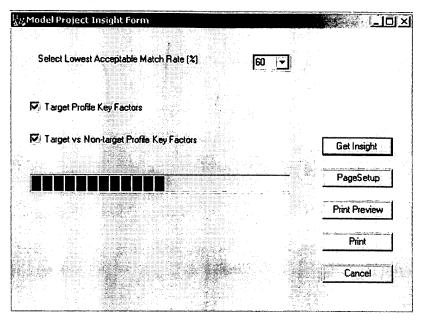


FIG. 27A

	V-11		
	rofile Key Factors		Print Preview
		Ethorsen 2007	Print
Maria -	arget vs Non-targ		

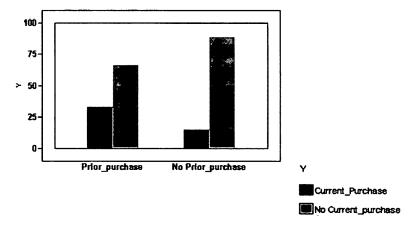
FIG. 27B



Existing users of Current_purchase tend to be . . .

- 1. Purchase of first kind in recent campaign
- 2. Contacted before purchase of first kind
- 3. Contacted within last 8 months
- 4. Purchase of second kind in recent campaign
- 5. No purchase of first kind in recent campaign
- 6. Recently purchased
- 7. Contacted before purchase of second kind
- 8. located in Zone 6

FIG. 27C



Characteristic

FIG. 27D